

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

Listing of Claims

1. **(Currently amended)** A computer-implemented method for risk analysis under uncertainty, the method comprising the steps of:
 - capturing assumptions to create a scenario for one or more products for one or more time planning periods;
 - specifying a component plan to be analyzed, the component plan identifying the quantities of each component that are positioned for each planning period; and
 - submitting a request for analysis to an analytic engine for calculation of risk and performance indicators, wherein the specifying **the** ~~the~~ **[[a]]** component plan to be analyzed is performed prior to the submitting the request for analysis, the request for analysis including one or more analysis parameters and identifying the scenario and component plan.
2. **(Original)** A method as recited in claim 1 that further comprises the steps of:
 - calculating one or more risk and performance indicators;
 - returning the risk and performance indicators; and
 - storing the risk and performance indicators in a database or other persistent storage system.
3. **(Original)** A method as recited in claim 1 that further comprises the steps of:
 - specifying one or more component consumption requirements for one or more products;
 - specifying one or more component parameters;
 - specifying one or more product interactions; and
 - specifying one or more product parameters.

4. (Original) A method as recited in claim 1 that further comprises the steps of:
retrieving the scenario and component plan from a database or other persistent storage system;
constructing a message including the analysis parameters, the scenario and the component plan; and
sending the message to an analytic engine.
5. (Original) A method as recited in claim 2 that further comprises the step of presenting the results to the user.
6. (Original) A method as recited in claim 3 that further comprises the step of storing the one or more component requirements, component parameters, product interactions and product parameters in a database or other persistent storage system.
7. (Original) A method as recited in claim 5 that further comprises the step of retrieving at least part of the component plan from a database or other persistent storage system.
8. (Original) A method as recited in claim 5 that further comprises the step of retrieving at least part of the component plan from an external ERP, SCM, or planning Systems.

9. **(Currently amended)** A data storage medium having machine-readable code stored thereon, the machine-readable code comprising instructions executable by an array of logic elements, the instructions defining a method comprising the steps of:

capturing assumptions about products and components to create a scenario, the scenario describing the demand, financial, and operational information for one or more products and components for one or more time planning periods where the components include uninventoried available components;

specifying a component plan to be analyzed, the component plan identifying the quantities of each component that will be used or procured during each planning period;

generating a request for analysis, the request for analysis including one or more analysis parameters and identifying the scenario and component plan; and

submitting the request for analysis to an analytic engine for calculation of risk and performance indicators, wherein the specifying the ~~the~~ component plan to be analyzed is performed prior to the submitting the request for analysis.

10. **(Currently amended)** A data storage medium as recited in claim 9 wherein the method further comprises the steps of:

calculating one or ~~or~~ more risk and performance indicators, and
returning the risk and performance indicators.

11. **(Original)** A data storage medium as recited in claim 10 wherein the method further comprises the step of storing the risk and performance indicators in a database or other persistent storage system.

12. **(Original)** A data storage medium as recited in claim 9 wherein the method further comprises the steps of:

specifying one or more component requirements;
specifying one or more component parameters;
specifying one or more product interactions; and
specifying one or more product parameters.

13. (Original) A data storage medium as recited in claim 12 wherein the method further comprises the step of storing the one or more component requirements, component parameters, product interactions and product parameters in a database or other persistent storage system.
14. (Original) A data storage medium as recited in claim 9 wherein the method further comprises the steps of:
- specifying a component plan;
 - specifying levels for each component included in the component plan; and
 - storing the component plan in a database or other persistent storage system.
15. (Original) A data storage medium as recited in claim 9 wherein the method further comprises the steps of:
- retrieving the scenario and component plan from a database or other persistent storage system;
 - constructing a message including the analysis parameters, the scenario and the component plan; and
 - sending the message to an analytic engine.

16. (Previously presented) A system for performing risk analysis under uncertainty, the system comprising:

a user interface configured to allow a user to:

capture assumptions about products and components to create a scenario, the scenario describing the demand, financial, and operational information for one or more products and components for one or more time planning periods; and

specify a component plan to be analyzed, the component plan identifying the quantities of each component that will be used or procured during each planning period, where the identified quantities of components include at least one uninventoried available component; and

an application server configured to:

generate a request for analysis, the request for analysis including one or more analysis parameters and identifying the scenario and component plan; and

submit the request for analysis to an analytic engine for calculation of risk and performance indicators after the user specifies the component plan to be analyzed.

17. (Original) A system as recited in claim 16 wherein the user interface is configured to allow a user to:

specify one or more component requirements;

specify one or more component parameters;

specify one or more product interactions; and

specify one or more product parameters.

18. (Original) A system as recited in claim 17 wherein the application server is configured to store the one or more component requirements, component parameters, product interactions and product parameters in a database or other persistent storage system.

19. (Original) A system as recited in claim 16 wherein the user interface is configured to allow a user to:

specify a component plan; and

specify levels for each component included in the component plan.

20. (Original) A system as recited in claim 19 wherein the application server is configured to store the component plan in a database or other persistent storage system.

21. (Previously presented) A method as recited in claim 1 wherein components that are positioned for each planning period comprise non-inventory components.

22. (Original) A system as recited in claim 16 wherein the application server is configured to:

retrieve the scenario and component plan from a database or other persistent storage system;

construct a message including the analysis parameters, the scenario and the component plan; and

send the message to an analytic engine.

23. (New) A computer-implemented method comprising:

receiving an input comprising:

a first set of data regarding available quantities of resources in a first planning period, where the resources are required to produce products,

a second set of data regarding available quantities of the resources in a second planning period,

a third set of data comprising one or more of:

a forecasted demand of the products on a period-by-period basis,

a revenue gained from satisfying demand for the products on a period-by-period basis, or

product availability targets for the products on a period-by-period basis and confidence levels of the product availability targets on a period-by-period basis, and

a fourth set of data comprising a relationship between each product and corresponding resources required to produce each product;

submitting the input to an analytic engine; and

receiving from the analytic engine an output comprising a risk indicator for the input.

- 24. **(New)** The method of claim 23, wherein the risk indicator comprises a gating risk.
- 25. **(New)** The method of claim 23, wherein the risk indicator comprises a cancellation cost.
- 26. **(New)** The method of claim 23, wherein the submitting the input comprises mapping the input from an first language into a format understood by an engine core.
- 27. **(New)** The method of claim 26, wherein the first language comprises an eXtensible Markup Language (XML).